

Title (en)

METHOD FOR PRODUCING A SANDWICH PANEL WITH A REINFORCED SPECIAL PLASTIC FOAM CORE

Title (de)

VERFAHREN ZUR HERSTELLUNG EINES SANDWICH-PANEELS MIT EINEM VERSTÄRKTEN SCHAUMSTOFFKERN

Title (fr)

PROCEDE DE PRODUCTION D'UN PANNEAU SANDWICH COMPRENANT DES NOYAUX EN MOUSSE RENFORCEE

Publication

EP 3263321 B1 20210728 (DE)

Application

EP 16176980 A 20160629

Priority

EP 16176980 A 20160629

Abstract (en)

[origin: US2018001593A1] A method for producing a sandwich panel with a reinforced foam core includes inserting rod-shaped, thermoplastic reinforcing elements into a thermoplastic foam material such that the reinforcing elements extend through the foam material. End regions of the reinforcing elements project out of the foam material. The foam material is thermoformed to form a reinforced foam core, wherein the end regions of the reinforcing elements are integrally formed by applying temperature and pressure to the cover surfaces of the foam material and are bonded to the foam material in a fused connection. A thermoplastic cover layer is laminated on either side by applying temperature and pressure to the reinforced foam core on the cover surfaces of the foam material in order to form the sandwich panel, wherein the cover layers are bonded to the reinforced foam core in a fused connection.

IPC 8 full level

B29D 24/00 (2006.01); **B29C 70/08** (2006.01); **B29C 70/24** (2006.01); **B29C 70/68** (2006.01); **B32B 5/18** (2006.01); **B32B 5/24** (2006.01); **B32B 7/04** (2019.01); **B32B 27/06** (2006.01); **B32B 27/28** (2006.01); **B32B 27/30** (2006.01); **B32B 27/32** (2006.01); **B32B 27/34** (2006.01); **B32B 27/36** (2006.01); **B29C 44/56** (2006.01); **B29K 101/12** (2006.01); **B29K 105/04** (2006.01)

CPC (source: EP US)

B29C 70/086 (2013.01 - EP US); **B29C 70/68** (2013.01 - EP US); **B29D 24/002** (2013.01 - EP US); **B32B 5/18** (2013.01 - EP US); **B32B 5/245** (2013.01 - EP US); **B32B 7/04** (2013.01 - EP US); **B32B 27/06** (2013.01 - US); **B32B 27/065** (2013.01 - EP US); **B32B 27/281** (2013.01 - EP US); **B32B 27/286** (2013.01 - EP US); **B32B 27/288** (2013.01 - EP US); **B32B 27/302** (2013.01 - EP US); **B32B 27/32** (2013.01 - EP US); **B32B 27/34** (2013.01 - EP US); **B32B 27/36** (2013.01 - EP US); **B32B 27/365** (2013.01 - EP US); **B32B 37/06** (2013.01 - US); **B32B 37/10** (2013.01 - US); **B29C 44/5618** (2013.01 - EP US); **B29C 44/5636** (2013.01 - EP US); **B29K 2023/12** (2013.01 - EP US); **B29K 2055/02** (2013.01 - EP US); **B29K 2067/003** (2013.01 - EP US); **B29K 2067/006** (2013.01 - EP US); **B29K 2069/00** (2013.01 - EP US); **B29K 2071/00** (2013.01 - EP US); **B29K 2077/00** (2013.01 - EP US); **B29K 2101/12** (2013.01 - EP US); **B29K 2105/04** (2013.01 - EP US); **B32B 2250/40** (2013.01 - EP US); **B32B 2260/023** (2013.01 - EP US); **B32B 2260/046** (2013.01 - EP US); **B32B 2262/0269** (2013.01 - EP US); **B32B 2262/101** (2013.01 - EP US); **B32B 2262/106** (2013.01 - EP US); **B32B 2266/0214** (2013.01 - EP US); **B32B 2266/0228** (2013.01 - EP US); **B32B 2266/025** (2013.01 - EP US); **B32B 2266/0257** (2013.01 - EP US); **B32B 2266/0264** (2013.01 - EP US); **B32B 2307/50** (2013.01 - EP US); **B32B 2310/0843** (2013.01 - US); **B32B 2419/00** (2013.01 - EP US); **B32B 2471/00** (2013.01 - EP US); **B32B 2479/00** (2013.01 - EP US); **B32B 2605/08** (2013.01 - EP US); **B32B 2605/10** (2013.01 - EP US); **B32B 2605/18** (2013.01 - EP US)

Cited by

DE102019204460A1; CN113172981A; WO2020200796A2

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3263321 A1 20180103; **EP 3263321 B1 20210728**; US 10737463 B2 20200811; US 2018001593 A1 20180104

DOCDB simple family (application)

EP 16176980 A 20160629; US 201715636154 A 20170628